

Stainless Steel Speed Controller (Elbow Type) Series ASG

Material:

Stainless steel 316

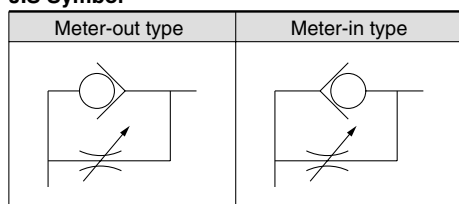
(Sealant: Special FKM
 Seat ring: Stainless steel 303)

Applicable tubing materials

- FEP
- PFA
- Nylon
- Soft nylon
- Polyurethane
- Polyolefin



JIS Symbol



Conforms to Food Sanitation Laws
 (Material of the component parts meets the apparatus
 and container packaging standards.)

Flow Rate and Effective Area

Model	ASG22□F-M5	ASG32□F-01	ASG42□F-02	ASG52□F-03	ASG62□F-04				
Tubing O.D. (mm)	ø4, ø6	ø4, ø6, ø8	ø6, ø8, ø10	ø8, ø10, ø12	ø12				
Controlled (free) flow	Flow rate (l/min (ANR))	100	180	230	390	460	790	920	1580
	Effective area (mm ²)	1.5	2.7	3.5	6	7	12	14	24

Note) Flow rate is measured at 0.5 MPa and 20°C.

Model

Elbow type	Port size	Applicable tubing O.D. (mm)					Applicable cylinder bore size (mm)
		4	6	8	10	12	
ASG22□F-M5	M5 x 0.8	●	●				6, 10, 16, 20
ASG32□F-01	R1/8	●	●	●			20, 25, 32
ASG42□F-02	R1/4		●	●	●		20, 25, 32, 40
ASG52□F-03	R3/8			●	●	●	40, 50, 63
ASG62□F-04	R1/2					●	63, 80, 100

Specifications

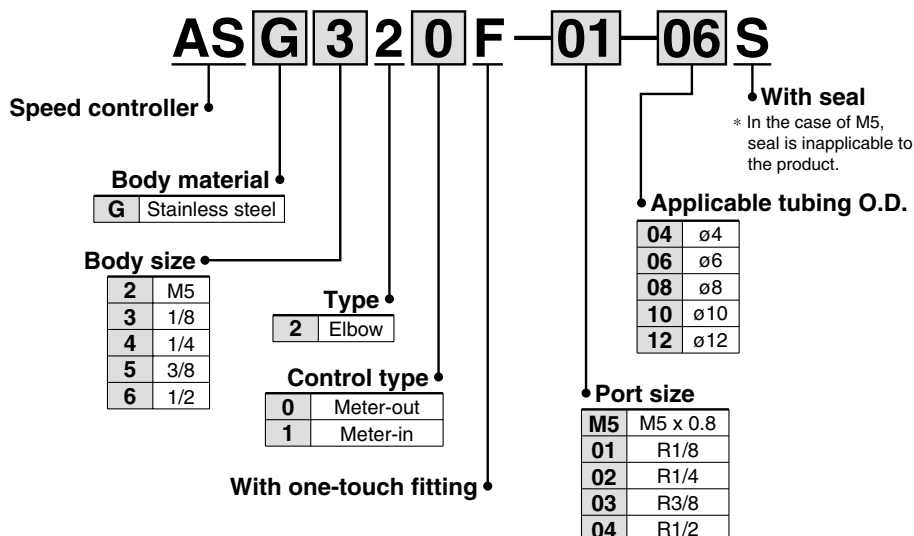
Fluid	Air
Proof pressure	1.5 MPa
Max. operating pressure	1 MPa
Min. operating pressure	0.1 MPa
Ambient and fluid temperature	-5 to 60°C (No freezing)
Number of needle rotations	10 turns (8 turns ^{Note 1)})
Applicable tubing material	FEP, PFA, Nylon, Soft nylon, Polyurethane ^{Note 3)} , Polyolefin

Note 1) In case of ASG22□F-M5

Note 2) Please be cautious of the max. operating pressure when soft nylon or polyurethane tubing is used.

Note 3) When polyurethane tubing is used, please use an inner sleeve.

How to Order

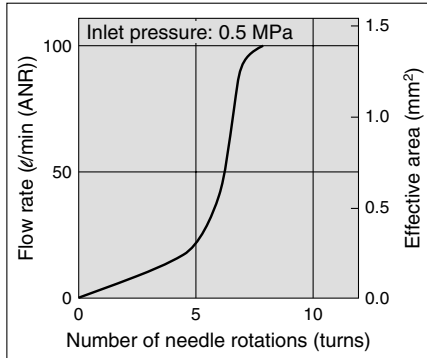


Series ASG

Needle Valve: Flow Characteristics

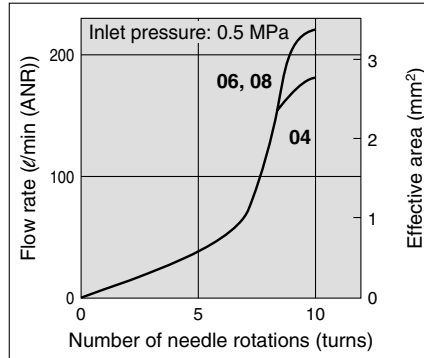
ASG220F-M5

ASG221F-M5



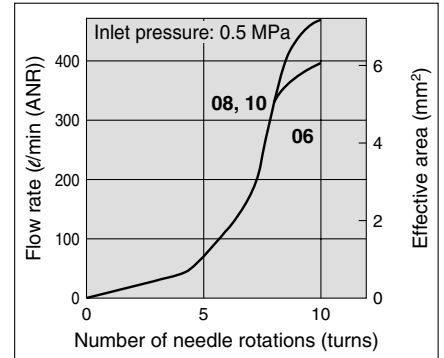
ASG320F-01

ASG321F-01



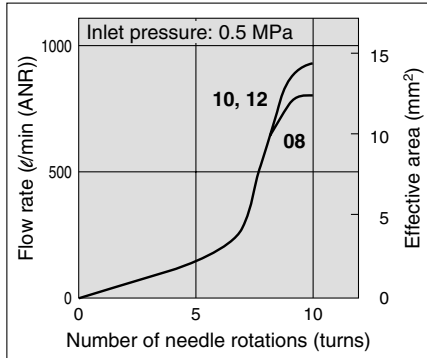
ASG420F-02

ASG421F-02



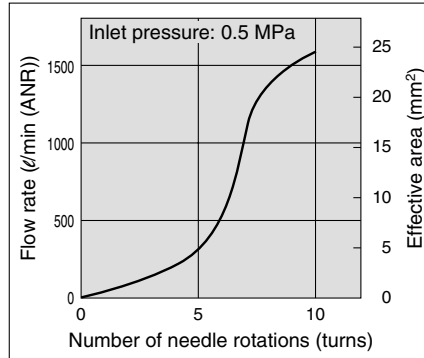
ASG520F-03

ASG521F-03



ASG620F-04

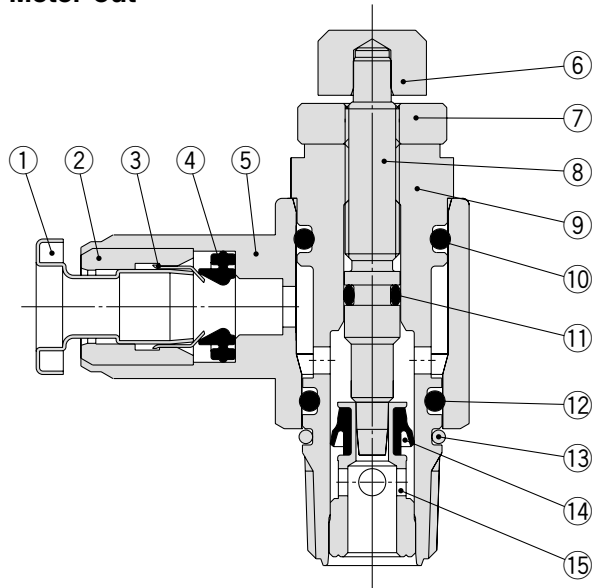
ASG621F-04



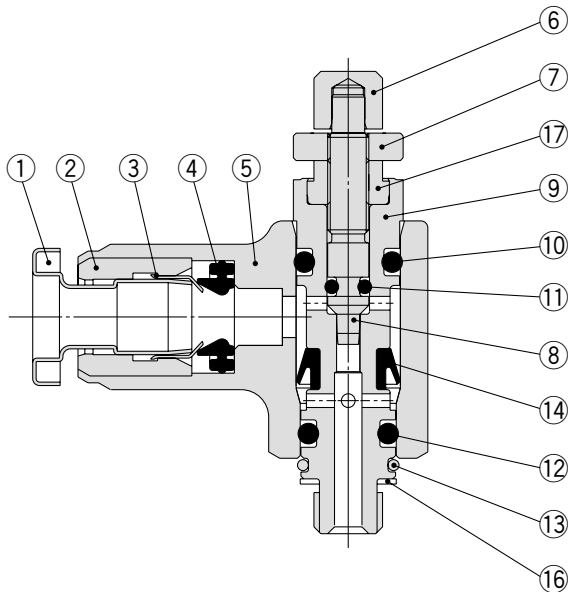
Construction

Elbow type

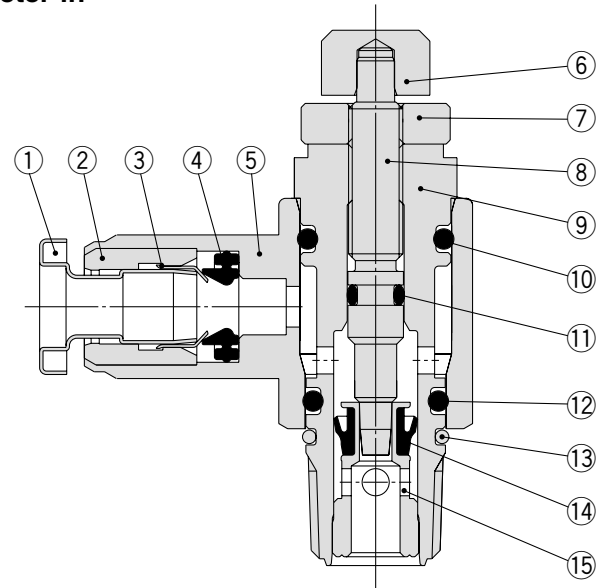
Meter-out



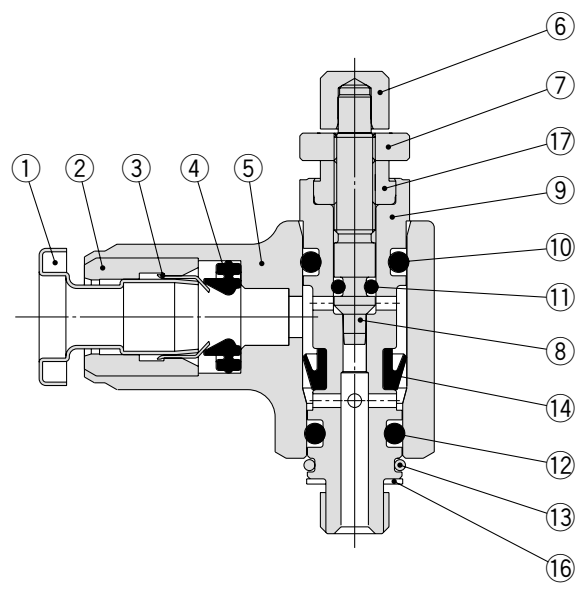
M5 port



Meter-in



M5 port



Component Parts

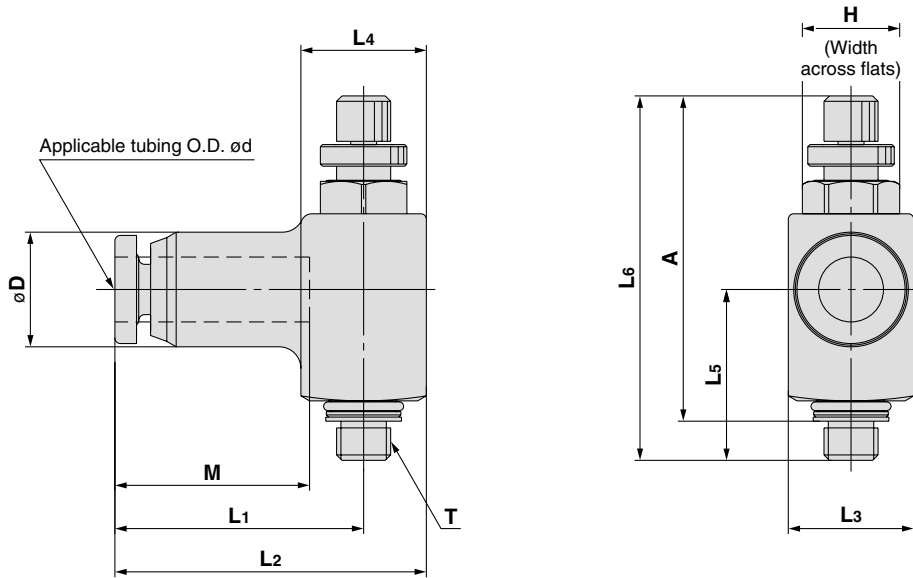
No.	Description	Material
1	Release button	Stainless steel 316
2	Guide	Stainless steel 316
3	Chuck	Stainless steel 316
4	Seal	Special FKM
5	Body A	Stainless steel 316
6	Handle	Stainless steel 316
7	Lock nut	Stainless steel 316
8	Needle	Stainless steel 316
9	Body B	Stainless steel 316

No.	Description	Material
10	O-ring	Special FKM
11	O-ring	Special FKM
12	O-ring	Special FKM
13	Ring	Stainless steel 316
14	U-seal	FKM
15	Seat ring	Stainless steel 303
16	Gasket	Stainless steel 316, Special FKM
17	Needle guide	Stainless steel 316

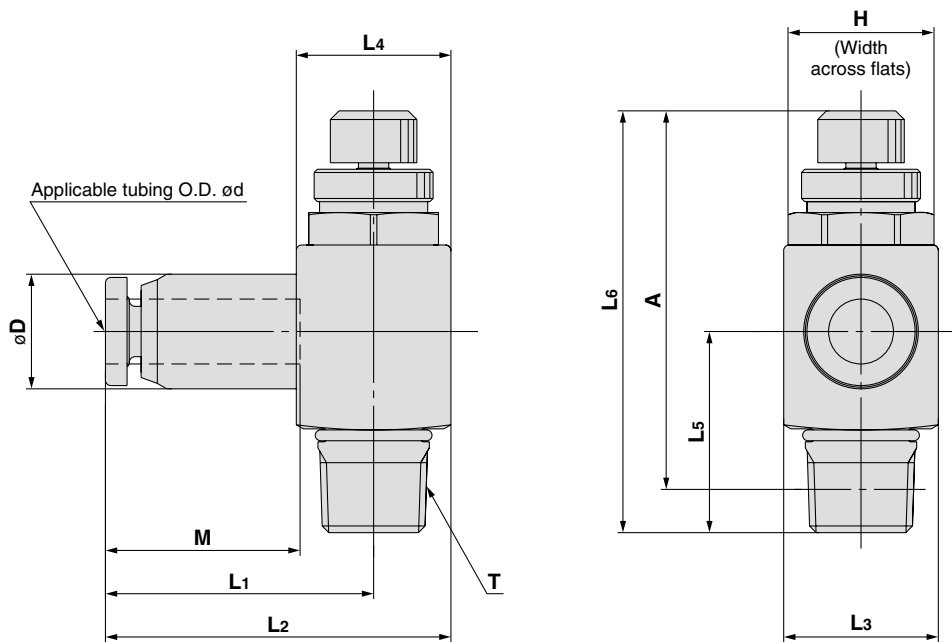
Series ASG

Dimensions

ASG22□F-M5



ASG32□F-01 ASG42□F-02 ASG52□F-03 ASG62□F-04



Model	Applicable tubing O.D. øD	T	H	D	L1	L2	L3	L4	L5	L6		A ^{Note)}		M	Weight (g)
										Max.	Min.	Max.	Min.		
ASG22□F-M5-04	4	M5 x 0.8	8	10.6	23	28.8	11.6		15.8	37.2	33.7	33.7	30.2	18.2	25.2
ASG22□F-M5-06	6			13	23.6	30.6								14	18.8
ASG32□F-01-04S	4	1/8	12	10.6	24.8	32	14.3		18.6	44	39	40	35	18.2	39.4
ASG32□F-01-06S	6			13	25.4	32.6								14.3	18.8
ASG32□F-01-08S	8	1/4	17	15	27.5	35.5	16		24.2	53.5	48.5	47.5	42.5	20.9	52.4
ASG42□F-02-06S	6			13	27.3	36.2								17.9	18.8
ASG42□F-02-08S	8	1/2	24	15	29.4	38.3	17.9		26.5	58.7	53.7	52.7	47.7	20.9	80.3
ASG42□F-02-10S	10			18	31.9	41.4								19	23
ASG52□F-03-08S	8	3/8	19	15	31.1	41.7	21.2		30	65.9	58.4	54.3	46.8	20.9	117.0
ASG52□F-03-10S	10			18	33.6	44.2								21.2	23
ASG52□F-03-12S	12	1/2	24	20.8	35.4	46.3	21.8		30	65.9	58.4	54.3	46.8	24.8	137.8
ASG62□F-04-12S	12			20.8	37.6	50.5								25.8	24.8

Note) Reference thread dimensions after installation.